

WHAT IS CLAIMED IS:

1. A machine for filling containers comprising:
 - (a) a reservoir having a plurality of openings for containing a fluid product;
 - (b) a plurality of conduits connected to said plurality of openings;
 - (c) a plurality of product dispensing valves with each of the product dispensing valves connected to one of each of said plurality of conduits;
 - (d) a plurality of product dispensing pistons and cylinders with each of said product dispensing cylinders connected to one of said product dispensing valves;
 - (e) an adjustable rack having a threaded adjustment for setting the position of the rack and an engaging opening for interconnecting said plurality of product dispensing pistons and cylinders to simultaneously adjust each of said plurality of product dispensing pistons and cylinders with respect to each other and providing for the simultaneous dispensing of a fluid product disposed in said plurality of product dispensing cylinders; and
 - (f) a conveyor line for supporting and advancing a plurality of containers to be filled from said product dispensing cylinders operated by the filling machine.
2. The machine of claim 1 further comprising a plurality of product dispensing nozzles connected to the ends of said product dispensing valves.
3. The machine of claim 1 further comprising a support stand for supporting said reservoir and said adjustable rack.

4. The machine of claim 3 further comprising a plurality of product dispensing nozzles connected to the ends of said product dispensing valves.
5. The machine of claim 4 further comprising a threaded shaft connected to said adjustable rack for adjusting the position of said product dispensing pistons.
6. The machine of claim 3 further comprising a plurality of threads for individually adjusting the position of each of said plurality of product dispensing pistons in said adjustable rack.
7. The machine of claim 1 further comprising a second plurality of product dispensing pistons and cylinders with each of said second plurality of product dispensing cylinders connected to one of said product dispensing valves said second plurality of product dispensing pistons and cylinders disposed laterally adjacent to said plurality of product dispensing pistons and cylinders.
8. The machine of claim 7 further comprising a second adjustable rack having an engaging opening for interconnecting said second plurality of product dispensing pistons and cylinders to simultaneously adjust each of said second plurality of product dispensing pistons in said second plurality of product dispensing cylinders.

.
.

9. The machine of claim 7 further comprising a plurality of threads for individually adjusting the position of each of said second plurality of product dispensing pistons in said second adjustable rack.
10. The machine of claim 7 further comprising a plurality of product dispensing nozzles connected to the ends of said product dispensing valves.
11. The machine of claim 7 wherein said plurality of product pistons and cylinders and said second plurality of product pistons and cylinders provide for the filling of containers on two separate conveyor lines.
12. A product filler machine comprising:
- (a) a product reservoir having a plurality of openings;
 - (b) a plurality of product dispensing valves with each of said product dispensing valves connected to one of said plurality of openings;
 - (c) a plurality of product dispensing pistons and cylinders with each of said product dispensing cylinders connected to one of said product dispensing valves;
and
 - (d) adjustable means for interconnecting said plurality of product dispensing pistons to simultaneously adjust each of said plurality of product dispensing pistons in each of the plurality of product dispensing cylinders.

13. The product filler machine of claim 12 wherein said connection between said product reservoir and said product dispensing valves is connected by a flange clamp.
14. The product filler machine of claim 12 wherein said connection between said product dispensing cylinders and said product dispensing valves is connected by a flange clamp.
15. The product filler machine of claim 12 further comprising a cleaning manifold having a plurality of cleaning arms for disposition in said plurality of openings in said product reservoir and reaching down into and cleaning said plurality of product dispensing valves.
16. The product filler machine of claim 15 further comprising a curved conduit disposed between plurality of openings in said product reservoir and said plurality of product dispensing valves.
17. The product filler machine of claim 16 wherein said plurality of cleaning arms is curved for reaching through said curved conduit to reach down into and clean said plurality of product dispensing valves.
18. The product filling machine of claim 12 wherein said plurality of product dispensing valves are a plurality of three-way valves.

19. The product filling machine of claim 18 further comprising a plurality of product dispensing nozzles connected to the ends of said product dispensing valves.

20. The product filling machine of claim 19 wherein said plurality of product dispensing valves and said plurality of product dispensing nozzles are pneumatically operated.

21. A fluid metering machine comprising:

- (a) a support stand;
 - (b) a fluid product reservoir having a plurality of openings disposed above said support stand;
 - (c) a plurality of detachable conduits detachably connected to said plurality of openings;
 - (d) a plurality of detachable product dispensing valves with one of each of said plurality of detachable product valves detachably connected to one of said plurality of detachable conduits;
 - (e) a plurality of detachable product dispensing cylinders with each of said plurality of detachable product dispensing cylinders detachably connected to one of said plurality of detachable product dispensing valves;
 - (f) a plurality of product dispensing pistons with each of said plurality of product dispensing pistons disposed in each of said detachable product dispensing pistons;
- and

(g) adjustment means disposed on said support stand for simultaneously adjusting each of said plurality of product dispensing pistons in said plurality of detachable product dispensing cylinders.

22. The fluid metering machine of claim 21 further comprising a plurality of detachable product dispensing nozzles detachably connected to said plurality of detachable product dispensing valves.

23. The fluid metering machine of claim 21 further comprising means for individually adjusting the position of each of said plurality of product dispensing pistons in each of said plurality of detachable product dispensing cylinders.

24. The fluid metering machine of claim 22 wherein said plurality of detachable product dispensing valves and said plurality of product dispensing nozzles are pneumatically operated.

25. The fluid metering machine of claim 24 wherein said plurality of product dispensing nozzles are in horizontal alignment.

26. The fluid metering machine of claim 25 wherein said plurality of product dispensing nozzles are disposed above a conveyor.

- •
• •
27. The fluid metering machine of claim 26 wherein the operation of said conveyor is controlled by the fluid metering machine.
28. The fluid metering machine of claim 25 further comprising a second set of a plurality of detachable product dispensing cylinders detachably connected to a second set of a plurality of detachable product dispensing valves, said second set of a plurality of detachable product dispensing cylinders disposed laterally adjacent to said plurality of detachable product dispensing cylinders.
29. The fluid metering machine of claim 28 further comprising a second set of a plurality of product dispensing pistons with each of said second set of a plurality of product dispensing pistons disposed in one of said second set of a plurality of detachable product dispensing cylinders.
30. The fluid metering machine of claim 29 further comprising a second adjustment means for simultaneously adjusting each of said second set of a plurality of product dispensing pistons in said second set of a plurality of detachable product dispensing cylinders.
31. The fluid metering machine of claim 30 further comprising a second set of a plurality of detachable product dispensing nozzles detachably connected to said plurality of detachable conduits.

32. The fluid metering machine of claim 31 further comprising a first conveyor disposed below said plurality of detachable product dispensing nozzles and a second conveyor disposed below said second set of a plurality of detachable product dispensing nozzles.
33. The fluid metering machine of claim 32 wherein the operation of said first conveyor and said second conveyor is controlled by the fluid metering machine.